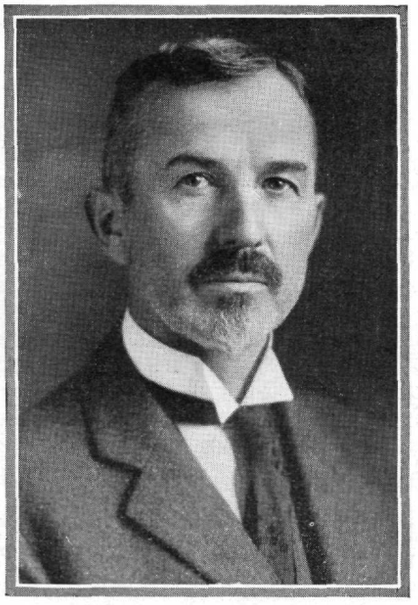
OUR DEPARTMENTAL CHIEFS

PROF. CHAS. St. J. CHUBB

PROF. A. S. WATTS



PROF. C. E. SHERMAN

DEPARTMENT OF ARCHITECTURE AND ARCHITECTURAL ENGINEERING

To Freshman Engineers:

You have embarked on the greatest adventure of your life and your ship is fitted and supplied for you, to a very large extent, by the State of Ohio. In many cases your destination is unknown; but you, as pilot, will sail the seas for four years in earnest quest of a cargo of knowledge. Your route will have its Scylla and Charybdis, but too it has its lighthouses and the stars, and always remember that you are at the wheel with the compass before you. Perhaps your cargo is to be architecture or architectural engineering. If so you will have many ports of call, gathering here and there from the rich stores of knowledge the University has to offer. Are you sure that your ship is built for this cargo? This you must find out on your trial trip—your Freshman year. May I be your lighthouse for this year? You will find me located first door to the left as you enter Brown Hall. Put into this port of call often—I can help you keep the decks clear.

Sincerely yours,

CHAS. ST. J. CHUBB,
Professor of Architecture.

DEPARTMENT OF CERAMIC FNGINEERING

The Department of Ceramic Engineering welcomes the freshman engineers. We are always glad to discuss with you your engineering education problems. Our teaching staff consists of men with extensive industrial experience, who know what the industry demands.

Ceramic Engineering is an extremely broad field offering opportunities for success to men possessing widely different talents. The industries, however, demand men of high grade and thorough equipment, and the Ceramic Engineering Curriculum is therefore exceptionally strenuous. Only men who are willing to work hard and who are physically and mentally capable of successfully carrying a heavy schedule are advised to undertake this course.

Our laboratory, apparatus, and furnaces are modern and are constantly being improved. All materials and processes employed in teaching are the same as in plant practice, so as to enable the graduate to adapt himself to plant operation in the minimum time. This department has exceptional connections with other ceramic research stations, which add greatly to the teaching facilities. The U. S. Government Ceramic Research Station and the Ohio State University Engineering Experiment Station Ceramic Research Department are both on the campus and available to our students. The Heavy Clay Ware Research Station operated by the Ceramic Department in conjunction with the State-owned brickyards at Roseville and Junction City, Ohio is the most modern in the world and will be used as a plant laboratory for the instruction of our students.

If you want to know more about Ceramic Engineering, call at Room 233, Lord Hall.

Prof. A. S. Watts.

DEPARTMENT OF CIVIL ENGINEERING

Greetings:

It would be a poor instructor who did not wish to see his students do better in their careers than he has done. So, freshmen will find the instructors in the Engineering College not only willing, but anxious to help them. It is probable that the advice of experienced persons is better than that of the less mature, therefore, freshmen should value the advice of instructors above the advice they reecive from their fellow students, and should not hesitate to consult with instructors on important matters. With all good wishes for the success of all new comers.

C. E. Sherman.

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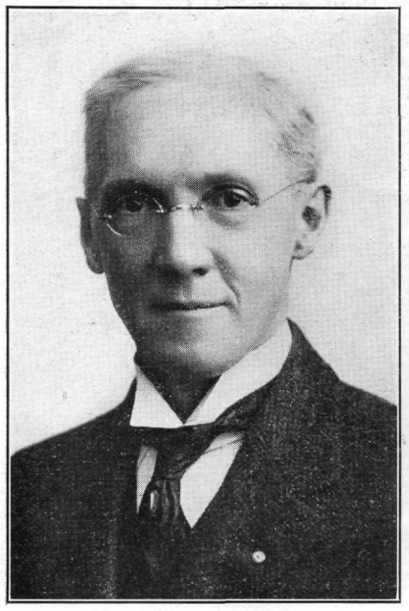

PROF. W. T. MAGRUDER

PROF. F. C. CALDWELL

PROF. H. E. NOLD

DEPARTMENT OF MECHANICAL ENGINEERING

To our Freshman Engineers:

We welcome you to the Engineering Family at Ohio State, one of whose members is the Department of Mechanical Engineering. We are glad to learn that you have decided to make the most of those talents that you are supposed to have; namely, the ability to think straight, to analyze a problem, to visualize what some one has imagined, to convince the other man that you are right, and, by your inventions, designs, and constructions, to push the boundaries of civilization a few miles farther forward so that men and women will be required to work fewer hours each day and thus have more time for enjoying the pleasures and satisfactions of life. If such is your ambition, you have a happy life ahead of you and your four years of college life will pass quickly and successfully, as the industries will be beckoning you on to the fulfillment of your ambitions in their employ. If you love to operate, repair, and build machinery, you should consider studying to be a professional mechanical engineer. In any case, we invite you to visit the south end of Robinson Laboratory, look over the exhibits in the five museums and the machinery on the main floor and in the galleries, and ask questions of the instructors, or come to Room 247 and let us talk over your problems.

Wm. T. Magruder.

DEPARTMENT OF ELECTRICAL ENGINEERING

While decision with regard to the line of engineering to be selected is not required before the end of the freshman year, many of the new men are so sure of their interests and ambitions that the privilege of changing their initial choice is of no use to them. Such students are to be congratulated upon the peace of mind and unity of purpose which such a situation brings to them. The Staff of our Department of Electrical Engineering naturally offers our special felicitation to those who are headed for the fresh and fertile field of endeavor in which we ourselves are working. We hope that after a year spent in laying the solid substructure formed by the freshman curriculum, they will be all here a year from now to start in upon the foundation studies of their second year, and that thus two years from this autumn we shall welcome them all as they start upon their real electrical engineering training at Robinson Laboratory. Those who are not now electrically minded but who hear the call within the year will not be too late. In the meantime, each member of our staff would be glad if he should have the opportunity to make smoother the path of any member of the class of 1932.

F. C. CALDWELL.

TO THE FRESHMAN IN ENGINEERING

Greetings:

You, as Freshmen in the College of Engineering, are just starting on a four-year program. You desire and expect to make the next four years both profitable and pleasant. During these years in college, you are going to lay the foundations for your future work in one of the various branches of engineering. The college has much to offer you. You have the dual problem of selecting that branch of engineering in which you can work most happily and of organizing your energies and time so that you will get the maximum profit out of the offerings of the college. This is not always an easy task.

The Faculty of the Department of Mine Engineering bids you welcome and invites you to call at the department office in Lord Hall to get acquainted and talk over your problems of selecting your branch of engineering and making the most of your time.

H. E. Nold.

OUR DEPARTMENTAL CHIEFS

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PROF. JOHN YOUNGER

DR. JAMES R. WITHROW

PROF. D. J. DEMOREST

DEPARTMENT OF INDUSTRIAL ENGINEERING

The staff of the Industrial Engineering Department welcome you young men entering the University. We feel very strongly that some day you will be the guiding hands and brains of industry and we want to help you in your ambitions and hopes for the future.

We like to talk over these things with you and our office doors are always open. Just walk in, give your name, and introduce yourself. Some day we hope to know your name and even nickname without any effort. Then we can have real gossips about industry and its problems and what we are finding in it.

We are all enthusiastic about our work and we try to be practical in it. We want to pass on this enthusiasm in some measure to yourselves.

Yours for cooperation and success

John Younger
Billy Knight
Oscar Rickly
Jake Foust
Denny Denman
Rudolph Schneider
Pete Morrison
Paul Lehozchy

DEPARTMENT OF METALLURGY

Probably a large percentage of the freshman engineers have never heard of "Metallurgical Engineering." Nearly every high-school senior who has been interested in electricity or chemistry or machinery or buildings or structures in general will have gotten some idea of Electrical Engineering, Mechanical Engineering, Civil Engineering, Chemical Engineering, or Architectural Engineering; yet not many will have come into contact with the work of the metallurgical engineer.

The metallurgical engineer, however, has the exceedingly interesting job of applying science, such as physics, chemistry, and mathematics to the engineering problems of the great metallurgical industries, such as the steel works, rolling mills, smelters, heat-treating establishments, and the great coke-oven and gas plants.

We sincerely hope that every freshman will find quickly just what branch of engineering he is best fitted for and will be most interested in, and we welcome with interest in the Department of Metallurgy all those students whose imagination and interest are fired by the career of metallurgical engineer or gas-and-fuel engineer.

D. J. Demorest.

DEPARTMENT OF CHEMICAL ENGINEERING

The fine weather and everything in general conspire to make the return to active work on the part of the engineering students pleasant. The staff of the Department of Chemical Engineering welcomes not only those actively pursuing courses in the department, whether in the chemical engineering curriculum or other curricula, as well as graduate students, but particularly students who are not yet taking work in this department but are looking forward to and preparing for it by preliminary courses.

Every one of us in this department, in common with others, believes his business is to take care of the needs of the individual student. We hope, therefore, each one will make it his business to ask questions of us. We do not wish to take from the student his own initiative and should like him to think the thing through pretty thoroughly before he comes with his project, but it would be a pity for him to lose time and opportunity through failure to ask questions. We wish every student to find himself and master himself as well as his subjects. We shall always be open to conversa-

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tion at any time when not engaged in other duties and can be found at the most irregular times. There will always be someone available when the building is open. If chemical engineering can throw a light on the problems of any student, we shall be glad to be of assistance.

It is a trite saying but strictly true, that chemical engineering is really fundamental to all other engineering work. The engineer guarantees performance by utilizing phenomena and science. He usually thinks in terms of material and forces. Materials are chemical substances, and some of the forces which the engineer uses are chemical forces. In fact, he is frequently abruptly confronted with such chemical forces as corrosion in a most pestiferous fashion and must be ready to face the situation.

Many other chemical engineering questions could be cited which every engineer must meet whether mechanical, electrical, civil, mining, ceramic, or metallurgical. Get as much therefore as you can out of your physics and chemistry, for these are fundamental to chemical engineering and therefore to all engineering.

To handle any engineering problem and adequately report upon it so that others may act with the intelligence which we as engineers may have developed requires ability to handle mathematics, engineering drawing, and the English language in a masterly way. These things speak for themselves.

Keep up your constant interest in your daily studies together with a little outside reading in any field in which you are interested or in which you wish to broaden yourself.

James R. Withrow.